POTOKAR, Adolf, ing.

Analysis of problems connected with a very high electronic stabilization of monophase voltage. II. (Conclusion). Elektr vest 27 no.11/12: 377-385 N-D °59. (EEAI 10:1)

### POTOKER, A.B.

Forecasting the provision of heat and the continuation of the vegetation of stubble corn crops. Meteor. i gidrol no.2:30-36 F \*63. (MIRA 16:2)

1. Odesskiy gidrometeorologicheskiy institut.
(Corn (Maize)) (Crops and climate)

POTOKER, A.B.

Calculation of the amount of rainfall for the postharvest and stubble corn crops in the southern Ukraine. Meteor. gidrol. no.6:31-33 Je (MIRA 18:5)

1. Odesskaya agrometeorologicheskaya stantsiya.

## Agrometeorological conditions for growing corn as a stubble crop in the south of the Ukrainian S.S.R. Meteor. i gidrol. no.3: 21-26 Mr '62. (MIRA 15:3) (Ukraine--Corn (Maize)) (Meteorology, Agricultural)

BLOKH, E.L., inzh.; POTOKER, I.M., inzh.; ROMANOV, G.I., inzh.; KHRENOV, G.S., Inzh.; DANILOV, P.P., nauchnyy red.; RYAZANTSEVA, L.I., red.; TARKHOVA, K.Ye., tekhn. red.

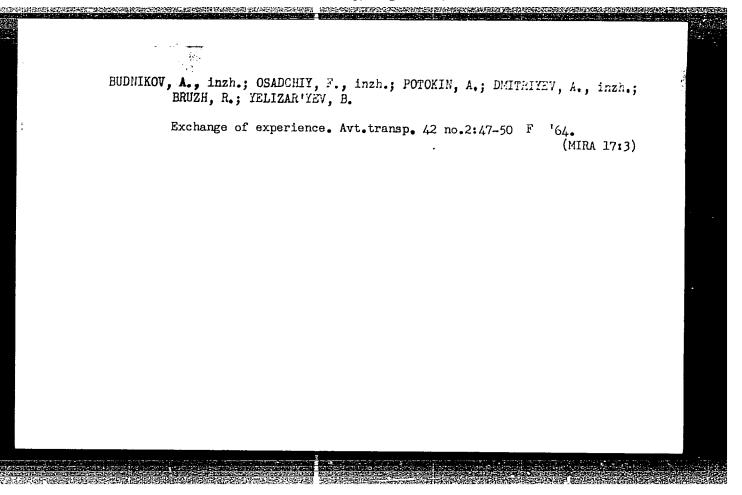
[Safety instructions for insulation work and the manufacture of materials at production bases] Instruktivnye ukazaniia po tekhnike bezopasnosti pri proizvodstve teploizoliatsionnykh rabot i izgotovlenii materialov na proizvodstvennykh bazakh. Moskva, Gosstroiizdat, 1963. 102 p. (MIRA 16:9)

```
TEREMYAZEV, G., inzh.; GLEBOV, V., inzh.; LUZANOV, B.; MEDNIKOV, V.;
GURMAN, V., inzh.; SHARKHOV, A., inzh.; KOZLOV, N.; KULIK, B.;
PETROV, N., inzh.; FOTCKIN, A., master po pnewnopritoram

Fxchange of experience. Avt. transp. 43 no.9:49-53 S '65.

(MINA 18:9)

1. Tashkentskiy avtobusnyy park No.2 (for Potokin).
```



### POTOKIN, A., master

Operational testing of the MKZ-B-9B fuel pumps in Central Asia. Avt.transp. 40 no.11:43 N '62. (MIRA 15:12)

1. Karbyuratornyy tsekh 2-go Tashkentskogo avtobusnogo parka.

(Fuel pumps-Testing)

### "APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001342"

POTOKIN, A.A.

Signaling of switch section clearance by the tail end of a train.

Avtom., telem. i swiaz' 7 no.12:31-32 D '63. (MIRA 17:4)

1. Starshiy elektromekhanik, Mineralovodskaya distantsiya signalizatsii i svyazi Severo-Kavkazskoy dorogi.

### POTOKIN, A.F.

Unified devices for the fuel system of motor-vehicle engines.

Avt. prom. 30 no.6:11 Je \*64. (MIRA 17:12)

1. Tashkentskiy avtobusnyy park No.2.

SLABKINA, A.I., kand. sel'khoz. nauk; FIRSOVA, T.N., kand. sel'khoz. rauk; POTOKIK, V.P., kand. sel'khoz. rauk;
VOLKOV, G.K., kand. vet. nauk; SHKUDOVA, S.I., red.

[Principles of animal husbandry] Osnovy zhivotnovodstva,
Moskva, Kolos, 1964. 263 p. (MIRA 18:11)

POTOKIN, V. P.

Cand Agr Sci - (diss) "Milk and meat productivity of mixtures of the first generation obtained from crossing black-speckled cows with Dzherseyskiye bulls in the "Klement'yevo" Sovnarkhoz of Moscow Oblast." Moscow, 1961. 21 pp; (All-Union Scientific Research Inst of Animal Husbandry); 200 copies; price not given; (KL, 7-61 sup, 252)

EWT(1)/EPA(n)-2/ETC/EPF(n)-2/ENG(m)/EPA(w)-2/ENA(n)-2 I./P(c)\_\_\_\_ SOURCE CODE: UR/0057/65/035/010/1848/1852 AP5025899 GG/AT ACC NRI 44,55 44,55 Potokin, V.S.: Rakhovskiy, V.I.; Tikhonov, V.N. AUTHOR: All-Union Electrotechnical Institute im. V.I.Lenin (Vsesoyuznyy elektrotek-ORG: hnicheskiy institut) Investigation of electrode erosion in the bridge stage when breaking 1 to TITLE: 5 kA currents in vacuum SOURCE: Zhurnal tekhnicheskoy fiziki, v,35, no. 10, 1965, 1848-1852 21,44,55 TOPIC TAGS: circuit breaker, vacuum, vacuum arc, electrode, tungsten, ionized plasma ABSTRACT: Earlier investigations of one of the authors (V.I.Rakhovskiy. ZhTF, XXXIV, vyp. 11, 1964) of a heavy current vacuum circuit breaker, with particular reference to the stage in which a bridge of molten metal forms between the separating electrodes have been extended to higher currents up to 5 kA). The experimental technique was similar to that previously employed: cylindrical tungsten electrodes were rapidly separated, the voltage across the gap was observed with an oscilloscope, and the loss of electrode material was estimated by weighing tantalum foils that had been mounted near the gap. It was not possible to interrupt the discharge at any desired stage. It was found, however, that the loss of electrode material was always proportional to the duration of the arc stage of the discharge. From this it is concluded that in UDC: 621.3.064.26 Card 1/2 16.72 0201

L 7725-66 ACC NR: AP5025899

breaking currents up to 5 kA the loss of electrode material due to formation of a liquid bridge is negligible compared with the total electrode erosion. The voltage drop during the bridge stage rose considerably when the current was increased beyond about 3 kA. As a result of the increased Joule heat the bridge material presumably became very hot (temperatures up to 14 800 °K are estimated), and a mass of highly ionized plasma was formed. The authors call this highly ionized plasma joining the electrodes the "anomalous bridge". Spontaneous explosive formation of an anomalous bridge with consequent spontaneous separation of the electrodes was sometimes observed. There is a brief theoretical discussion of the formation and vaporization of the bridge. It is concluded that in breaking currents of 2 to 5 kA there is formed between tungsten electrodes a mass of highly ionized plasma, that the mass of material eroded from the electrodes during the bridge stage exerts no appreciable influence on the duration of the subsequent vacuum arc, and that in designing high current vacuum circuit breakers one must take measures to avoid spontaneous separation of the electrodes. Such measures might be to increase the contact pressure or to employ softer electrode materials. Orig. art. has: 6 formulas and 4 figures.

SUB CODE: EE, EM, ME/ SUBM DATE; 11Nov64/ ORIG REF: 003/ OTH REF: 003

Card 2/2

### "APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001342"

FOPOV, Nikolay Aleksandrovich; POTOKIN, V.S., red.

[Vacuum switches; their present state and perspective development] Vakuumnye vykliuchateli; sostoianie i perspektivy razvitiia. Moskva, Energiia, 1965. lll p. (MIRA 18:6)

LUKATSKAYA, I.A.; POPOV, N.A.; POTOKIN, V.S.; TYULINA, M.A.

Power vacuum arc-arresting chamber. Biul.tekh.-ekon.inform.
Gos.nauch.-issl.inst.nauch. i tekh.inform. no.3:42-50 '63.

(MIRA 16:4)

(Electronic tubes)

### POTOLEA, E.

Extension of the utilization limits of direct-current network computation table models. p. 150.

ENERGETICA. (Asociatia Stiintifica a Inginerilor si Techicienilor din Rominia si Ministerul Energiei Electrice si Industriei Electrotahnice) Bucuresti, Rumania. Vol. 7, no. 3, Mar. 1959.

Monthly List of East European Accessions (EEAI) LC, Vol. 8, no. 8, Aug. 1959.

Uncl.

POTOLEA, E

TECHNI LOGY

PTRIODICAL: FLECTROTTHRUICA, Vol. 6, no. 11, Nov. 1958

POTOLFA, E. Synchonous machine with apparent poles, a nonsymmetric element of electric networks. p. 407

Monthly List of East European Accessions (EEAI) LC Vol. 8, No. 4
April 1959, Unclass

POTOLEA, Eugen

An original method for the simultaneous determination of longitudinal and transversal reactances of the synchronous machine with salient poles. Bul Inst Politch 25 no.3:133-148 My-Je '63.

1. Chair de Reseaux electriques, Institut Polytechnique de Bucarest.

£ 63703-65 EWT(d) IJP(c)

ACCESSION NR: AP5022056

RU/0004/64/000/012/0445/0457

AUTHOR: Potolea, E. (Candidate of technical sciences, Engineer, Lecturer)(Bucharest)

TITLE: Some methods for solving the matrix equations of electric networks

SOURCE: Electrotehnica, no. 12, 1964, 445-457

TOPIC TAGS: electric network, mathematic matrix, mathematic transformation

Abstract [Author's English summary modified]: The author develops some novel relations for the case of networks with currents at the nodes by using the basic methods of solving the network equations, namely the method of potentials at the nodes, the node-pair method and the cyclic current method. He also discusses the network transformation method, emphasizing the existence of two categories of transformations --topological and functional -- and showing that in the initial and transformed networks the maintenance of the source power is not a necessary condition of transformers.

Orig. art. has : 11 figures, 49 formulas, 3 tables. Card 1/2

### "APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001342"

L 63703-65	
ACCESSION NR: AP5022056	
accetiments Table to	olitehnic, Facultatea de energetica, Catedra retele ertment of Electrical Networks, Power Faculty, Polytechnical
SUBMITTED: 25Ju164	encl: 00 sub code: ee,ma
NR REF SOV: 001	OTHER: 014 JPRS
Card 2/2	inter The Committee of the Committee of

 ${\mathbb B}$ 

### L 63735-65

ACCESSION NR: AP5022209

RU/0004/64/000/011/0405/0412

AUTHOR: Potolea, Eugen (Candidate of technical sciences, Engineer, Lecturer)

TITLE: Watrix equations of electrical networks

SOURCE: Electrotehnica, no. 11, 1964, 405-412

TOPIC TAGS: electric network, mathematic matrix, graph theory, topology

ABSTRACT: The working equations of electrical networks are written by means of the incidence matrixes from the graph theory. Different forms of the topological equations are derived, and some novel forms are presented and used to analyze electrical networks with currents at the nodes. Orig. art. has 1 figure, 30 formulas and 4 tables.

ASSOCIATION: IPB, Catedra Retele electrice (Department of Electrical Networks, IPB)

SUBMITTED: 25Jul64

ENCL: 00

SUB CODE: EE, KA

NO REF SOV: COL

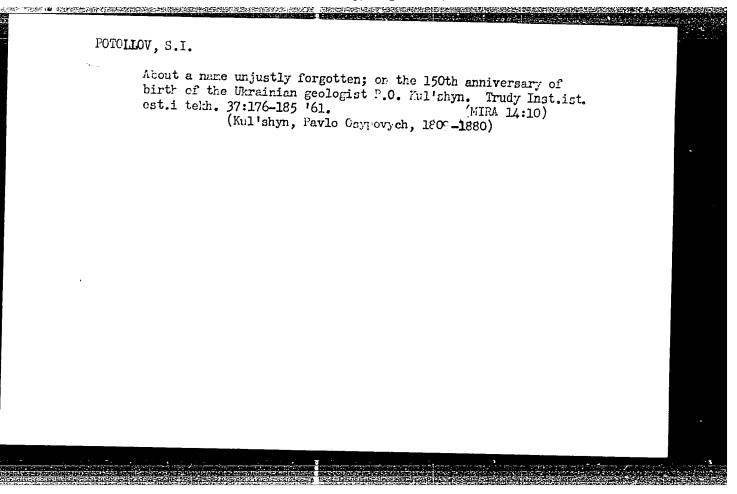
OTHER: 013

**JPRS** 

Card 1/1

BARTFAI, Bela. TEREKHOV, V.F., inzh. [translator]; FOTOLITSYE, B.A., inzh. [translator]; KUPTSOV, I.I., inzh., red.; STROGANOV, L.P., red. izdva; TIKHANOV, A.Ya., tekhn. red.

[Handbook on electroplating; translated from the Hungarian] Spravochnik gal'vanostega. Moskva, Mashgiz, 1960. 396 p. (MIRA 14:12) (Electroplating)



POTOLOKOV, Sergey Ivanovich; BOGOYAVLENSKIY, Ye.P., retsenzent; LYUBOVTSEVA,
H.M., retsenzent; NIKOLAYEV, L.N., spetsrodaktor; MOROZOVA, I.I.,
reduktor; CHERYSHEVA, Ye.A., tekhnicheskiy redsktor

[Technology of cooperage] Tekhnologiia bondarnogo proizvodstva.
Izd.2-oe, ispr.i dop. Moskva, Pishchepromizdst, 1957. 325 p.

(Coopers and cooperage)

(MLRA 10:9)

### "APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001342

### POTCLEA, Eugen

Reactances of the synchronous machine on the theory of symmetrical components. Bul Inst Politeh 25 no.5:117-135 S-0 '63.

1. Department of Power Stations, Bucharest Polytechnic Institute.

POTOLEA, Eugen, ing., candidat in stiinte tehnice (Bucuresti)

A simultaneous determination method for synchronous reactances in machines with visible poles. Electrotehnica 9 no.3:102-106 Mr<sup>1</sup>61

1. Conferentiar la Institutul Politehnic, Bucuresti.

## "APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001342

Equivalent 9 no.12:472	<b>sys</b> tems f ⊶480 D ³6	or the	two-condu	ctor gra	nd lines,	Emergetica	Pan

TOMM, I., dr.; COESTANTINENCE, L., dr.; FRIEMER, l., dr.; POTOLINCA, V., dr. HARASIM, D., dr.

Acute poisoning with an insecto-fungicide in children (considered in elution to 6 elinical cases). Pediatria (Bucur.) 13 no.6:545-549 N-D 164.

1. Lucrare efectuata in Sectia de pediatrie a Spitalului raional Falticeni (medic sef de sectie: dr. L. Constantinescu).

SHKUL'TIN, Vasiliy Ivanovich, inzh.; SHER, Yuliya Mikhaylovna, kend. tekhn. nauk; GAZIYEV, Abdul Gafurovich, inzh.; BAMM, Aleksandr Isaakovich, inzh.; NIKITIN, Grigoriy Vusil'yevich, inzh.; POTOLOKOV, Sergey Ivanovich, inzh.; DONNIKOVA, A.A., red.izd-va; GRECHISHCHEVA, V.I., tekhn. red.

[Containers for shipment] Transportnaia tara. [By] V.I. Shkul'tin. i dr. Moskva, Goslesbumizdat, 1963. 436 p. (MIRA 16:11)

(Containers)

POTOLOKOV, Sergey Ivanovich; MOROZOVA, I.I., red.; ZARSHCHIKOVA, L.N., tekhn. red.

[Manufacture of tight and slack barrels]Proizvodstvo zalivnykh i sukhotarnykh bochek. Moskva, Pishchepromizdat, 1962. 357 p. (MIRA 15:12)

(Coopers and cooperage)

ABKL', Faina Khaimovna; BRAYTSEVA, Tat'yana L'vovna; POTOLOKOV,S.I., spetsred.; ITSKOVICH,V.A., red.; FORMALINA, YeA., tekhn.red.

[ Use of polymeric materials in the packing of fishery products] Primenenie polimernykh materialov dlia upakovki rybnoi produktsii. Moskva, TSentr. nauchno-issl. laboratoriie tary, 1960. 42 p. (MIRA 14:5)

(Fishery products--Packaging) (Plastics)

### "APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001342

BELOV, V. YU.; POTOLOKOV, S.I.

Berrels

Progressive work methods in a berrel factory. Ryb. khoz., 28, No. 6, 1952.

9. Monthly List of Russian Accessions, Library of Congress, October 1952 1988, Uncl.

# POTOLOV, A.P. Chopping machines for reed. Bum.prom. 38 no.9:29 5 '63. 1. TSentral'nyy nauchno-issledovatel'skiy i proyektno-konstruktorskiy institut bumagodelatel'nogo mashinostroyeniya.

POTOLOV, A.P.

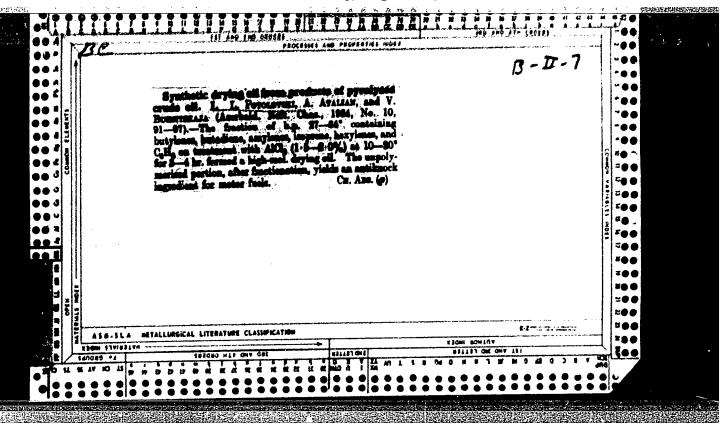
Soviet \*\*DTs-Ol\* diffibering device. Bum.prom. 38 no.1:28 Ja \*\*163. (MIRA 16:2)

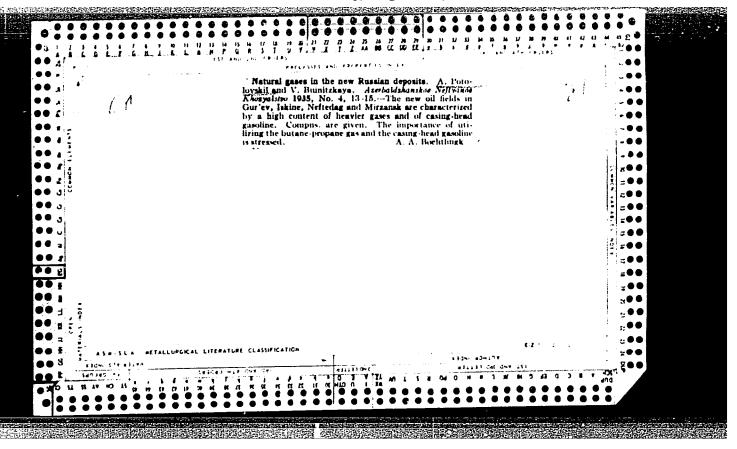
1. Glavnyy konstruktor TSentral'nogo nauchno-issledovatel'skogo i proyektno-konstruktorskogo instituta bumagodelatel'nogo mashinostroyeniya.

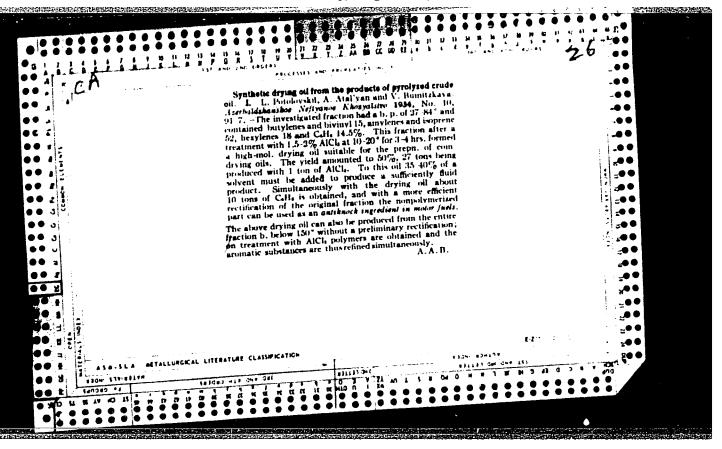
(Woodpulp industry -- Equipment and supplies)

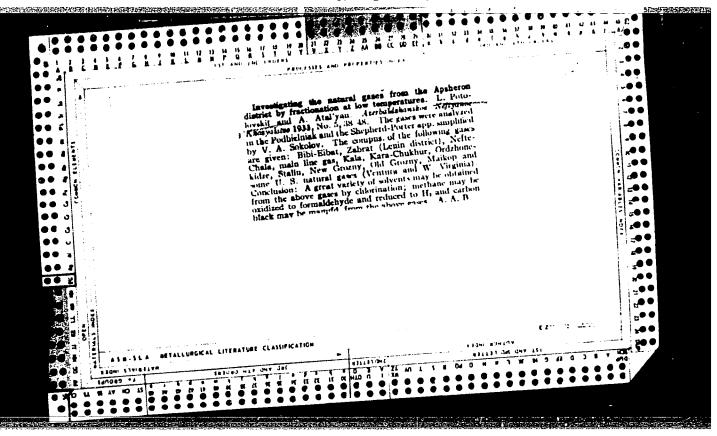
Devoted geologist. Mauka i zhyttia 9 no.1:45-46 Ja '59.
(MIRA 12:1)
(Kul'shyn, Pavlo Iosypovych, 1809-1880)

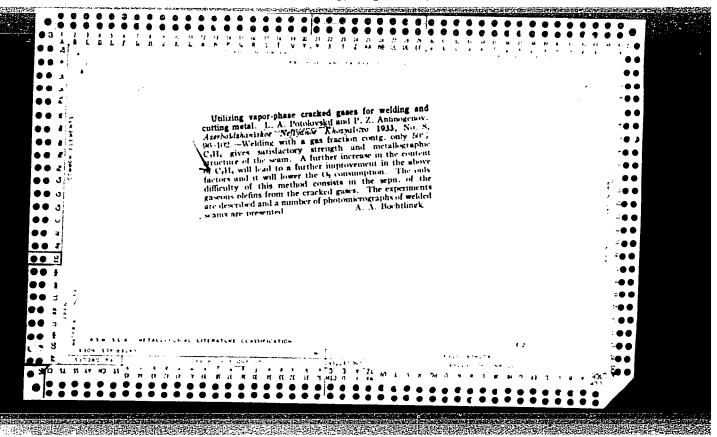
APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0013427

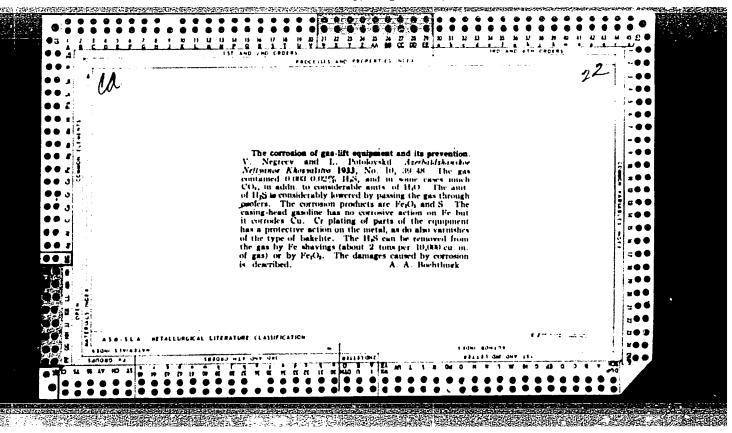


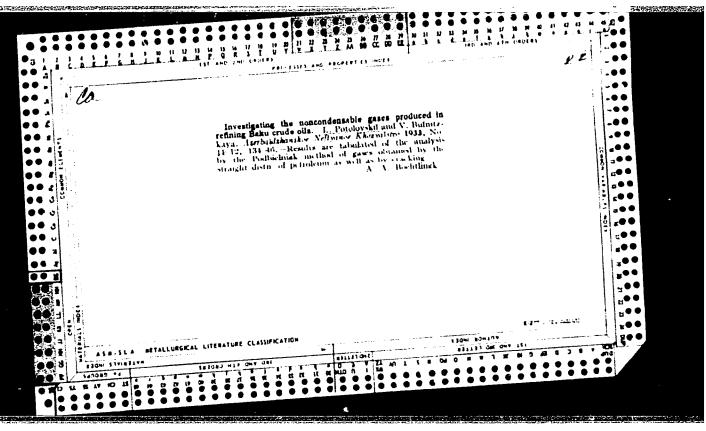


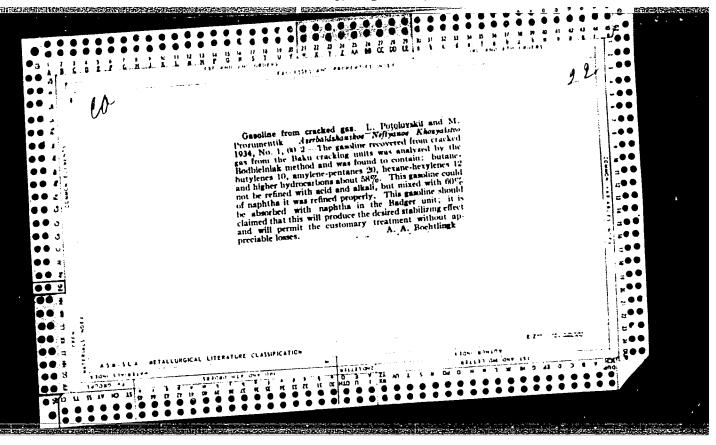


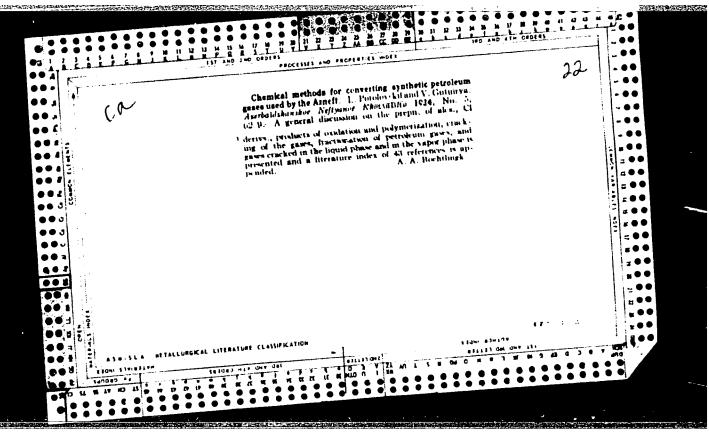


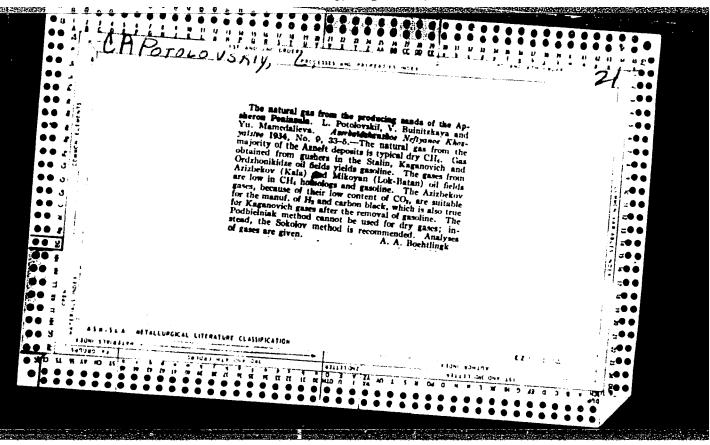




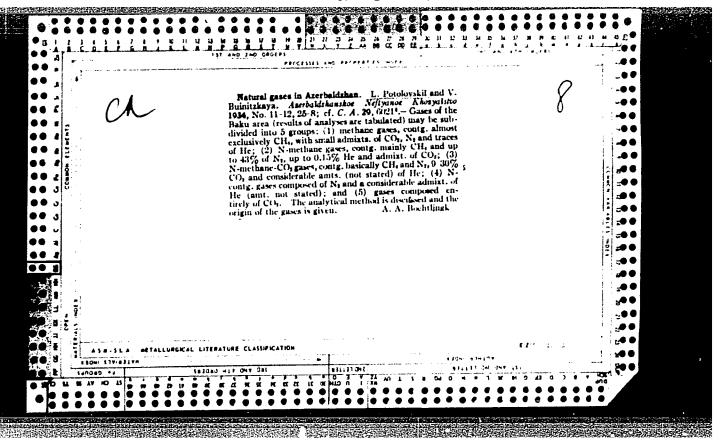


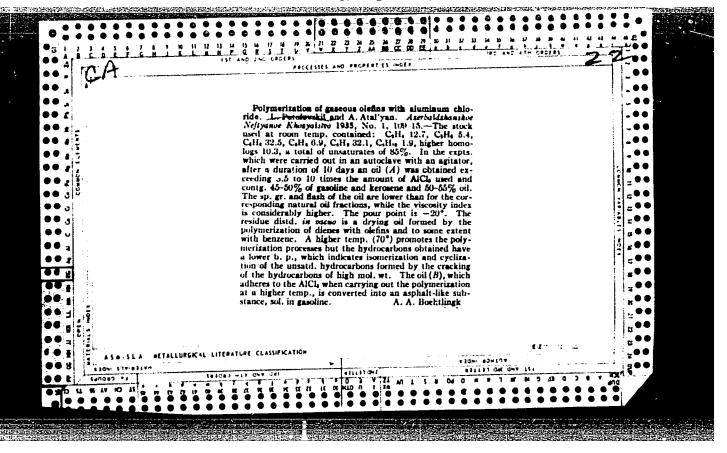






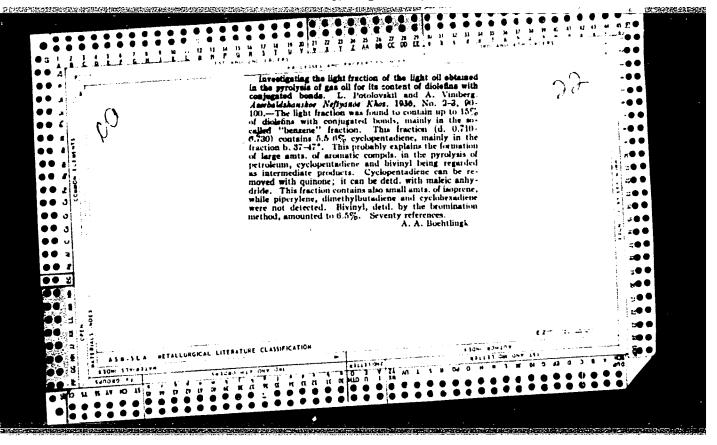
CIA-RDP86-00513R001342

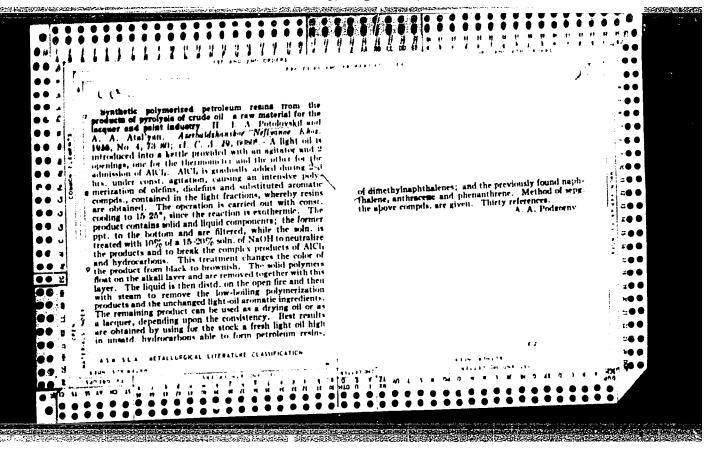


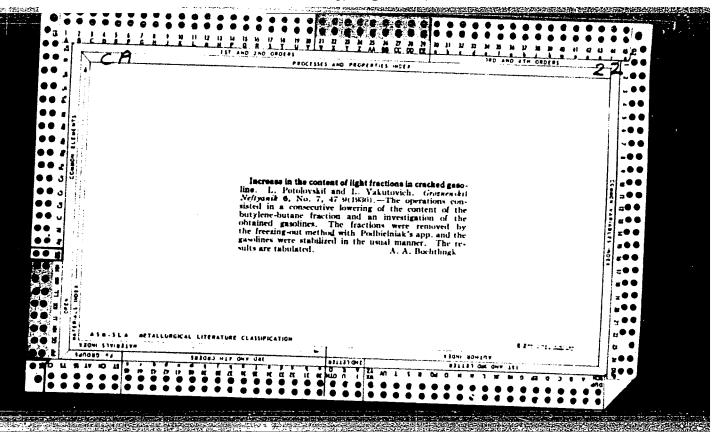


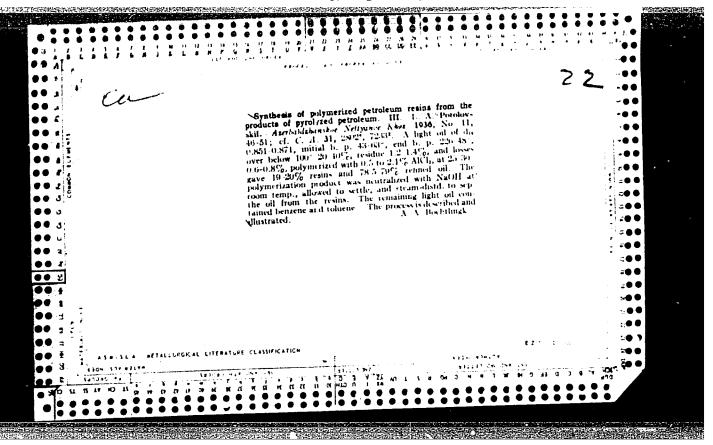
#### "APPROVED FOR RELEASE: Tuesday, August 01, 2000

## CIA-RDP86-00513R001342



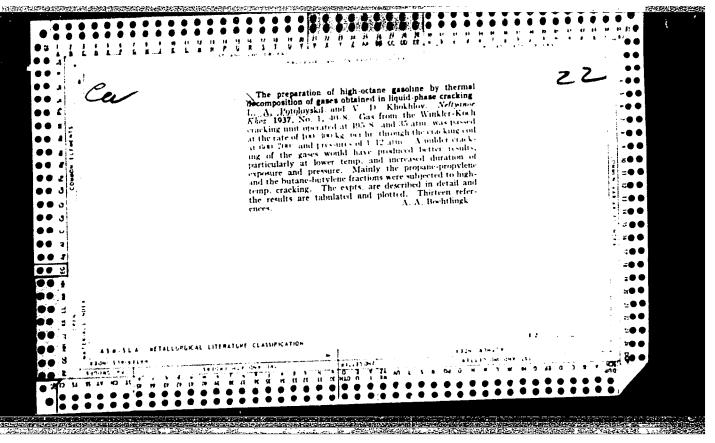


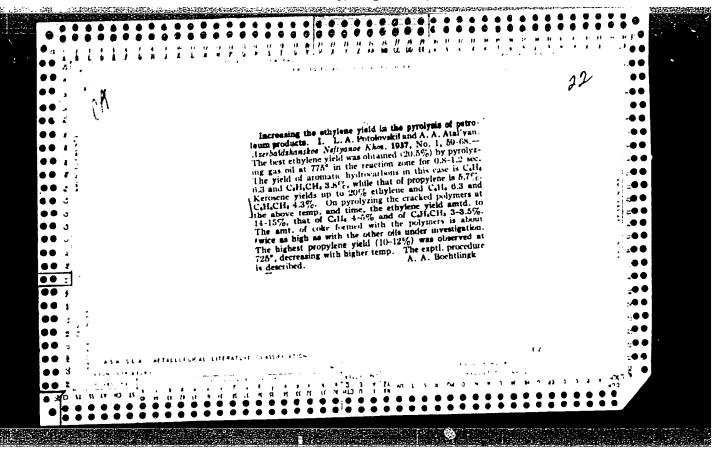


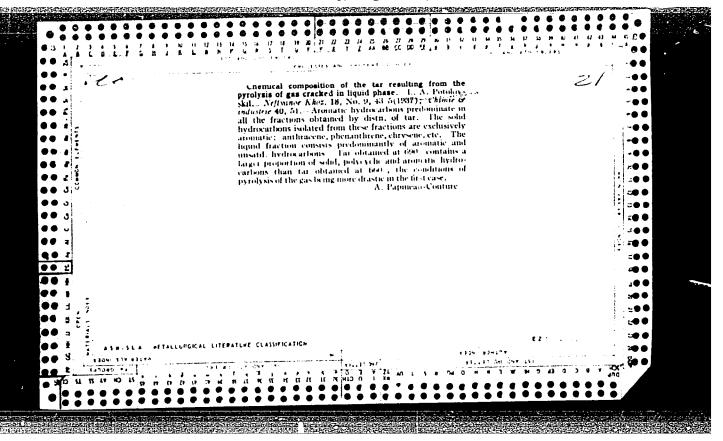


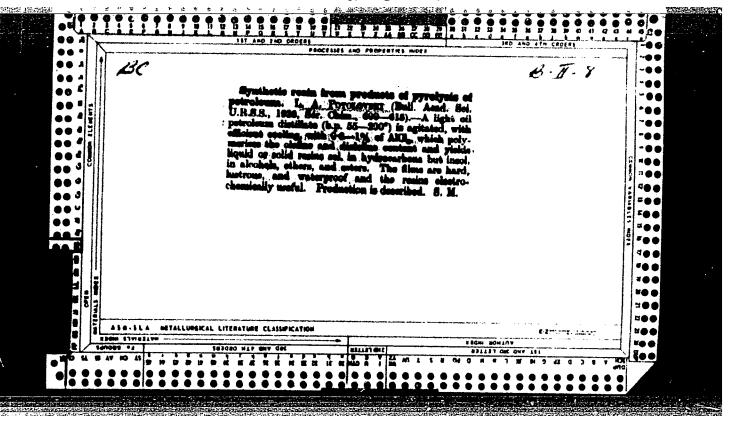
# "APPROVED FOR RELEASE: Tuesday, August 01, 2000

CIA-RDP86-00513R001342



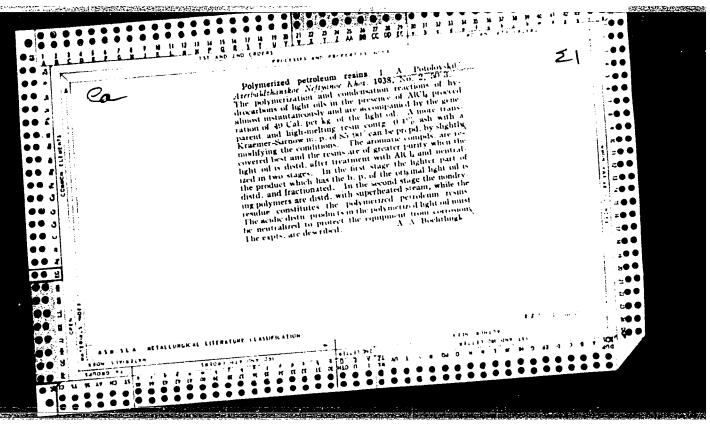


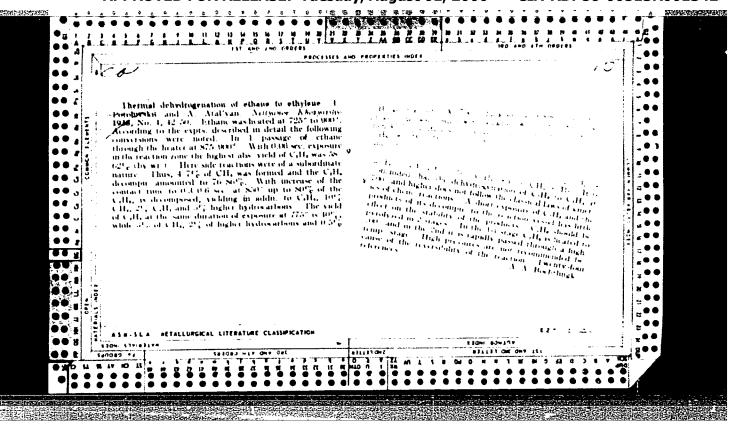


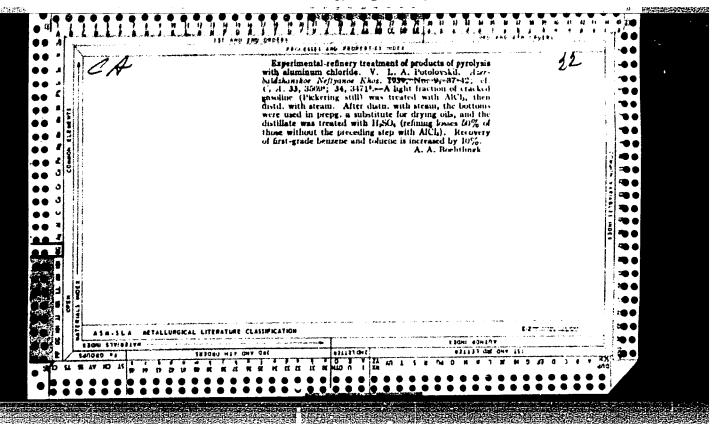


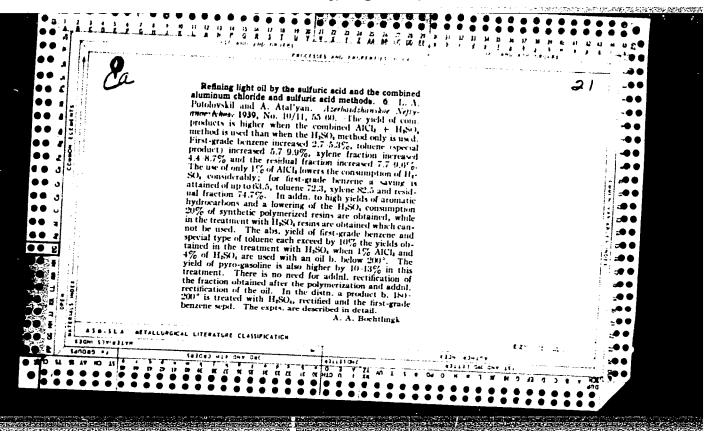
# "APPROVED FOR RELEASE: Tuesday, August 01, 2000

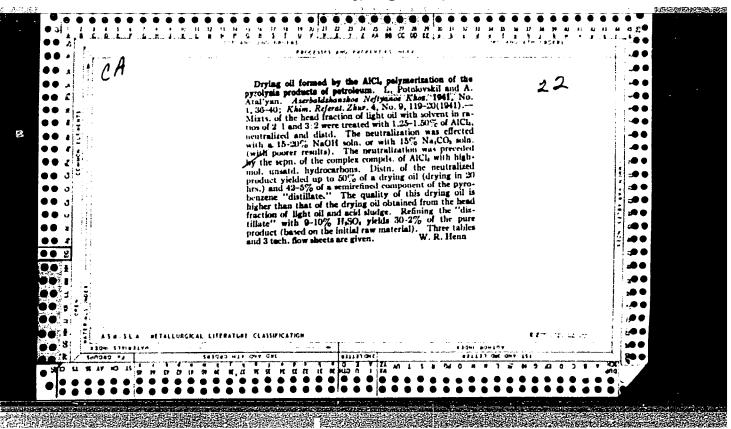
#### CIA-RDP86-00513R001342



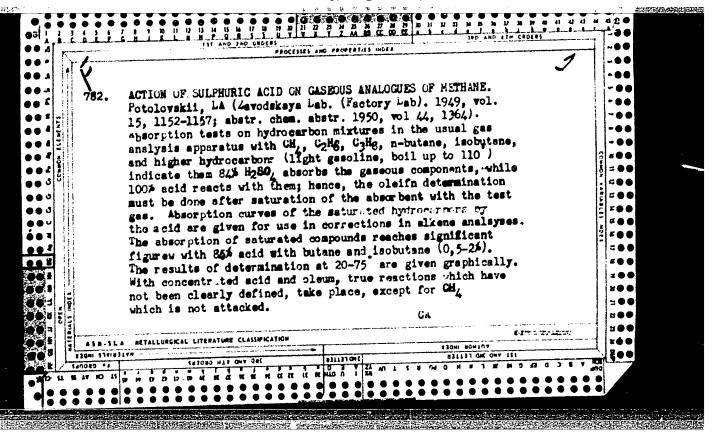








POTOLOVSKIY, I	L. A.	···						58/4 <b>9T29</b>	
			without special equipment. Only the manometer contains mercury, thus giving this ne apparatus an advantage over the old apparat which had mercury in the manometer, pump, a boiling vessel. Pressure is kept constant.	USSR/Chemistry (Contd)	Apparatus was developed by Cen Inst of Avn Fuels and Oils in cooperation with Chem Dept, Acad Sci USSR. It is capable of working within the temperature limits of -2000 and +500. Construction is simple and parts can be replaced 58/49729	"Zavod Lab" Vol XV, No 6	"Apparatus for the Rectification of Hydro- carbon Gases at Low Temperatures," B. B. Kaminer, L. A. Potolovskiy, Cen Inst of Avn Tuels and Oils, 5 pp	USSR/Chemistry - Hydrocarbons Gases	
	58/ <b>491129</b>	•. ·.	Only the mano- giving this new the old apparatus meter, pump, and kept constant.	Oh and	Inst of Avn ith Chem Dept, ivorking within and+500. Con- an be replaced 58/49729		of Hydro- ," B. B. Last of Avn	Jun 49	
				en in ordinalis Mostro State		Fields			



# POTOLOVSKIY, L.A.

USSR/Chemistry - Catalytic cracking

Pub. 151 - 7/38 Card 1/1

: Potolovskiy, L. A., and Spektor, G. S. Authors

: Cracking of normal paraffinic hydrocartons in the presence of aluminum chlo-Title

ride. Part 1 .- Cracking of n-heptane and n-nonane

Periodical : Zhur. ob. khim. 24/2, 225-231, Feb 1954

The effect of molecular weight of basic normal paraffinic hydrocarbons and Abstract cracking conditions in the presence of AlCl3 on the composition of final crade

ing products was investigated. The products obtained consisted of greater numbers of isomers with the methyl group in the second carbon atom and lesser quantities of hydrocarbons with the methyl group in position 3, as well as branched isomers with two methyl groups in 2,3 and 2,4 positions and isomers with quaternary carbon atom. The content of the gaseous cracking products is described. The advantages of HCl in the role of cracking reaction acceler-

ator are discussed. Nineteen references: 7-USSR; 4-USA; 2-English; 2-German

and 4-French (1881-1947). Tables; drawing.

Central Scientific Research Institute of Aviation Fuels and Lubricants Institution:

May 16, 1953 Submitted

PotoLoVSKIV, L.A.
USSR/Chemistry - Catalytic cracking

Card 1/1 : Pub. 151 - 6/37

Authors

Title

: Potolovskiy, L. A., and Spektor, G. S.

: Cracking of normal paraffinic hydrocarbons over AlCl3. Part 2.-Cracking

of n-hexadecane

Periodical : Zhur. ob. khim. 24/3, 434-439, Mar 1954

: The products (isomers) obtained from the cracking of isoparaffinic hydro-Abstract

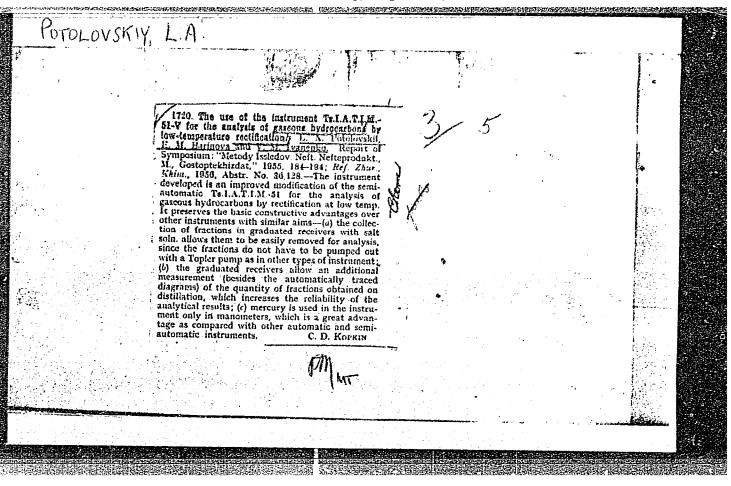
carbons (n-hexadecane) over an AlCl<sub>3</sub> catalyst are tabulated. The amount of AlCl<sub>3</sub> and the presence of HCl at a 200-250° temperature range were found to have no effect on the composition of the final n-hexadecane cracking products but are rather factors determining the rate of reaction. The composition of the gaseous cracking products is described. It was established that the hydrocarbons, separated from residues formed during the cracking of n-heptane, n-nonane and n-hexadecane over AlCl3 catalysts are highly unsaturated com-

pounds. The similarity in the composition of the cracking products confirms the analogy in the mechanism of decomposition of n-paraffinic hydrocarbons of various molecular weight. Seven references: 5-USSR; 1-French and

1-German (1927-1954). Tables.

Central Institute of Aviation Fuels and Lubricants Institution:

Submitted: May 16, 1953



AID P - 3578

Subject : USSR/Chemistry

Card 1/1 Pub. 152 - 15/20

Authors : Potolovskiy, L. A. and G. S. Spektor

ORDINATE PROPERTY OF THE PARTY. Title Cracking of technical grade paraffin

Periodical Zhur. prikl. khim., 28, 7, 766-772, 1955

The main products resulting from cracking of paraffins in the presence of AlCl<sub>3</sub> are isoparaffins of low molecular weight. The cracking of Groznyy paraffin yielded isobutane (19-32%), isopentane (20-24%), isohexanes (11-16%), and isoheptanes (4-9%). Six tables, 1 diagram, 8 references, all Russian (1881-1954). Abstract

Institution : None

Submitted : 0 29, 1953

BLAGOVIDOV, I.F.; POTOLOVSKIY, L.A.; DOLADUGIN, A.I.

Manufacture of alkylaryl sulfonates (sulfonol-np) from propylene polymers. Khim. i tekh.topl. i masel no.8:4-13 (MIRA 10:10) Ag '57.

1.Vsesoyuznyy nauchno-issledovatel'skiy institut po pererabotke nefti i gaza i polucheniyu iskusstvennogo shidkogo topliva. (Sulfonic acids) (Propene) (Cleaning compounds)

STALLINERY AUTHORS:

Kogan, P. S. and Potolovskiy, L. A. 65-1-6/14

TITLE:

High Temperature Pyrolysis of Ethane Fractions to Obtain Ethylene. (Vysokotemperaturnyy piroliz etanovoy fraktsii s tsel'yu polucheniya etilena).

PERIODICAL: Khimiya i Tekhnologiya Topliv i Masel,1958, Nr.1.pp.25-32. (USSR).

ABSTRACT:

Experiments were carried out to ascertain optimal conditions for the pyrolysis of an ethane fraction (which was separated from the gases obtained during the pyrolysis of kerosene at temperatures varying between 800°C -950°C and at atmospheric pressure) in order to achieve maximum yields of ethylene. The influence of the metal of the tube furnace on the processes of pyrolysis and coke formation as well as the influence of concentration of the propylene and ethane fractions on the degree of conversion of ethane and the yield of ethylene were also investigated. The experiments were carried out on a continuous flow laboratory apparatus. The reaction tubes were made of quartz, chrome-nickel steel 3917 (17.3% Cr, 10.2%Ni) and iron-chrome-aluminium alloy No.2 (23-27% Cr., 4.5-7% Al). The experiments in the quartz tubes were carried out to obtain a standard for comparing

Card 1/4

High Temperature Pyrolysis of Ethane Fractions to Obtain Ethylene.

the catalytic action of the metal of the tubes on the pyrolysis process. A diagram of an experimental apparatus is shown in Fig.1. The tests were carried out at 800°C, 830°C and 900°C, and varying residence times of the products in the reaction zone. For each of the given temperatures the optimal time of maintaining the products in the reaction zone were established and the rate of supply of the ethane fraction at which the highest yield of ethylene could be obtained. Data on the composition of the pyrolysis gases and yields of ethylene at optimal residence times of the products in the reaction zone for each temperature are given in Table 1, which shows that by increasing the temperature of the pyrolysis from 800°C to 900°C the degree of conversion of ethane increases from 64.7% to 73.6% and the concentration of ethylene in the pyrolysis gases increases from 34% to 37.8%/volume. The yield of ethylene for the circulated fraction increases from 51.7% to 62%. Results obtained when carrying out the pyrolysis in a tube made of alloy No.2 show that at 950°C and at an optimal residence time of 0.017 seconds the degree of conversion of ethane increases up to 87.2% and the

Card 2/4

APPROVED FOR RELEASE: Tuesday, August 01, 2000 - GIA-Kupbo-Oustskools42.

High Temperature Pyrolysis of Ethane Fractions to Obtain Ethylene.

composition of ethane to carbon methane and hydrogen. When the concentration of propylene is increased from 4.7% to 12% (Table 4) the degree of conversion of ethane is slightly decreased from 85.4% to 80.3%. On the basis of results obtained during the experiments, it can be assumed that at 900°C and at atmospheric pressure propylene acts as an inhibitor. The reduced inhibiting action of propylene on the rate of dehydrogenation of ethane under the above described condition is connected with combining of active radicals (H.CH<sub>3</sub>) with the hydrogen atom of a methyl group of propylene and the formation of the H<sub>2</sub> and CH<sub>4</sub> molecules and an inactive allyl type radical. There are 4 Tables, 2 Figures and Russian.

AVAILABLE: Library of Congress.

Card 4/4

SOV/ 85-88-6-7/13

AUTHORS:

Potolovskiy, L. A; Blagovidov, I. F; Kestikin, L. I.

TITLE:

The synthesis of Na-Isodecylbenzene Sulphonate (Sulphonole NP-2) on the Basis of Amylene Dimers. (Sinter inchesilbenzolsul fonata natriya (sul fonola NP-2) na ceneve

dimerov amilenov).

PERIODICAL:

ABSTRACT:

Khimiya i Tekhnologiya Topliv i Masel, 1958, Mr.6. pp. 33 - 41 (USSR).

pp. 00

The alkylation of benzene with amylene dimers when using sulphuric acid and aluminium chloride as catalyst, and also the conditions for sulphonating isodecylbenzenes with bleum, neutralisation of alkylbenzene sulphonic acids and the physico-chemical properties of sodium alkylbenzene sulphonates and their activity as detergents was investigated. During the alkylation, the fractions boiling between 120° - 180°C (Refs. 8, 9, and 10) of various

between 1200 - 180°C (Refs. 8, 9, and 10) of various samples of technical discamplenes (Ref.2) were used. These were obtained by polymerising pentane-amplene fractions of tracking products in an industrial polymerising unit of the GrozNII Cracking Plant. The physico-chemical properties of the fractions are listed. The composition and structure of the clefins was defined by infra-red spectral analysis (Table 1); purified aluminium chloride GOST 4456-46) and sulphuric acid were used as catalysts.

Card 1/4

The Synthesis of Na Isodecylbenzene Sulphonate (Sulphanole NP-2) on the Basis of Amylene Dimers.

The optimal molar ratio of C<sub>6</sub>H<sub>6</sub>: iso-C<sub>10</sub>H<sub>20</sub> was found to be 7.0 - 7.5 (Fig.1). The yield of the fraction 212° - 320°C was 112%; the optimal quantity of aluminium chloride catalyst was 0.1 mol - 7.5 mol of diisoamylene, and the optimum reaction temperature = 30°C (Fig.2). The yield of various fractions is given. When using diisoamylenes containing 0.89% of sulphur compounds the yield of the fraction 212°- 280°C was 61%, and the alkylation product had a high bromine number (15). The reaction was carried out at 5°- 7° and 18°- 20° when sulphuric acid was used as catalyst (Table 2). Yields were 38.1% and 79.2% respectively. The influence of the amount of acid on the yield of alkylbenzenes and on the bromine number of fractions 180°- 350°C during alkylation with sulphuric acid at 15°- 17°C (Fig. 3). The highest yield of isodecylbenzenes was obtained when 96%- 98% sulphuric acid was used. In this case the yield = 98.1%. It was found that when using H<sub>2</sub>SO<sub>4</sub> a lower yield of alkylbenzene fraction and a higher bromine number was obtained than when using AlCl<sub>3</sub>. Results of infra-red spectral analyses of the alkylbenzene fractions are given in Table 3. The tests

Card 2/4

sov/ 65-58-6-7/13

The Synthesis of Na Isodecylbenzene Sulphonate (Sulphanok NP-2) on the Basis of Amylene Dimers.

on the sulphonation of isodecylbenzenes with cleum and neutralisation of the sulphonic acids were carried out at 350 - 40°C while adding oleum for 20 - 30 minutes; and subsequent mixing for 120 minutes. The sulphonic acids were neutralised with a 25% - 30% solution of NaOH, acids were neutralised with a 25% - 30% solution of NaOH, the temperature of neutralisation did not exceed 45°C - 50°C. The temperature of neutralisation did not exceed 45°C - 50°C. The temperature of neutralisation did not exceed 45°C - 50°C. The temperature of neutralisation did not exceed 45°C - 50°C. The temperature of solution according on the fraction 212°C - 320°C of isodecylbenzenes depending on the fraction of SO<sub>3</sub> in oleum. Industrial experiments the content of SO<sub>3</sub> in oleum. Industrial experiments carried out in the plant VNII NP confirm the data obtained during laboratory tests. The physico-chemical properties of Na isodecylbenzene sulphonate were determined in VNII NP and in Leningrad in the All-Union Research VNII NP and in Leningrad in the All-Union Research vNII NP and in Leningrad in the All-Union Research vNII NP and in Leningrad in the All-Union Research voils and Fats (VNIIZh) (Vsescyuznyy nauchno-issledovatel skiy institut zhirov (VNIIZh)) (Ref.13). Itself the detersive substance action of isodecylbenzene sulphonates in hard water at action of isodecylbenzene sulphonates in hard water at 40°C and at 0.25% concentration of the active substance was compared with the detersive action of soap under was compared with the detersive action of soap under was compared with the detersive action of soap under was compared with the detersive action of soap under was compared with the detersive properties NP-2 could be used as detergent. Its detersive properties

Card 3/4

APARTEENING PERIODER ROOM TOTAL TO

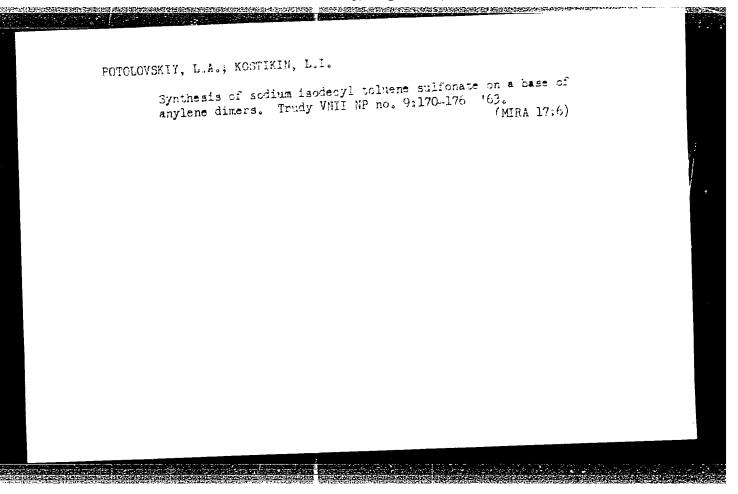
SOV/ 65-58-6-7/13

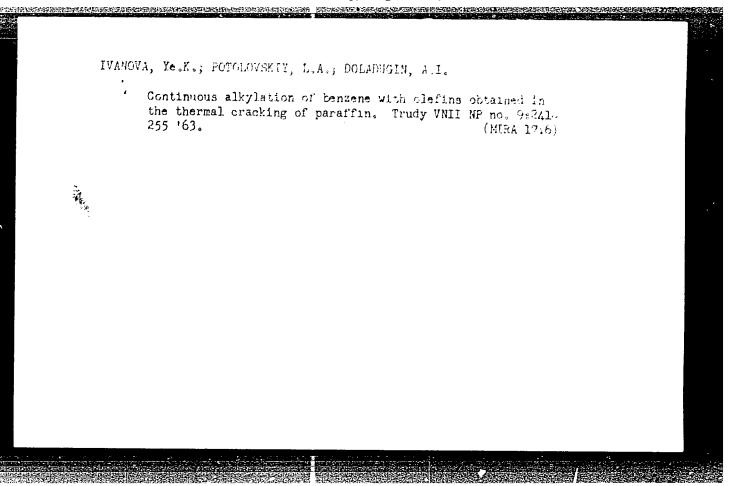
The Synthesis of Na Isodecylbenzene Sulphonate (Sulphancle NP-2) On the Basis of Amylene Dimers.

in the pure form, at 0.25 concentration in the solution = 111% compared with the detergent properties of scap and 246% when mixed with 50% sodium carbonate. Sulphanole NP-2, prepared with AlCl<sub>3</sub>, has much higher detergent properties than Sulphanole NP-2, prepared with H<sub>2</sub>SO<sub>4</sub>. Analogous results were obtained by the Central Research Institutes TsNIIshersti and TsNIIshelka. There are 6 Tables, 4 Figures, 13 References: 4 English. 8 Soviet, 1 German

ASSOCIATION: VNII NP

Card 4/4





# "APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001342"

MARTYMOVA, N.V.; DINTSES, A.I.; POPOVA, L.A.; POTOLOVSEIY, L.A.

Developing an industrial method for the production of polyisobutylene as a viacous additive to petroleum oilo.

Trudy VNII HP no. 9:63-d0 '63. (MIRA 17:6)

# "APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001342"

POTOLOVSKIY, L.A.; DOLADUGIN, A.I.; BLAGOVIDOV, I.F.

Synthesizing sodium alkylbenzene sulfonate (sulfonol NP-1) on a base of propylene polymers. Trudy VNII NP no. 9:110-120 (MIRA 17:6)

## "APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001342"

CHRHEIDZE, G.Ya., Priscardella, E.A., DelaHigin, a.i., Pringing Vi. Lin., 283,877, G.Y.,

Polymerization of propylene in order to obtain a frutter frontion (convinces) as a basic product. They This Science 9: 228-249 (63.)

ACCESSION NR: AR4036319

S/0081/64/000/004/P039/P040

SOURCE: Referativny\*; zhurnal. Khimiya, Abs. 4P277

AUTHOR: Marty\*nova, N. V.; Dintses, A. I.; Popova, L. A.; Potolovskiy, L. A.

TITLE: Development of an industrial method for the production of polyisobutylene, binding additive to petroleum oils

CITED SOURCE: Tr. Vses. n.-i. in-t po pererabotke nefti, vy\*p. 9, 1963, 68-80

TOPIC TAGS: petroleum, petroleum additive, oil additive, polyisobutylene, polymerization, isobutylene polymerization, mineral oil, polymerization catalyst

TRANSLATION: Laboratory experiments on the polymerization of isobutylene (the butan-butylene fraction, containing 12-30% isobutylene, was used as the raw material), designed to obtain polyisobutylene with a molecular weight of 15-20,000 which could be used as a binding additive to mineral oils, were performed in the presence of an AlCl3 catalyst (2% of the isobutylene) in a 1-liter reaction vessel with a stirrer of the propeller type at temperatures of -35 to -45C. The relationship between the molecular weight of polyisobutylene and the content of isobutylene in the raw material, the ratio of isobutylene to n-butylene in the raw material, the content of C5 hydrocarbon in the raw 1/2

SOV/65-58-12-5/18

AUTHORS:

Kogan, P. S. and Potolovskiy, L. A.

TITIE:

The Effect of Water Vapour on the Pyrolysis of an Industrial Ethane Fraction When Preparing Ethylene (Izucheniye vliyaniya vodyanogo para na piroliz tekhnicheskoy etanovoy fraktsli s tsel'yu polucheniya

etilena)

PERIODICAL:

Khimiya i Tekhnologiya Topliv i Masel, 1958, Nr 12,

pp 22 - 26 (USSR)

ABSTRACT:

These investigations were carried out at 900°C, the residence time in the reaction zone being 0.053-0.058 seconds and at atmospheric pressure. The following

ratios were determined: ethane fraction:water vapour equalled 1:0.05; 1:0.1; 1:0.25 and 1:0.5. tests were carried out on a laboratory apparatus in a reaction tube which was made of the iron-chrome-aluminium alloy No.2. The reaction tube had a diameter of 12 mm and its length equalled 900 mm. This was placed into a horizontal tube kiln containing elements made of the same alloy. The apparatus, method of analysis of the initial fraction and of the pyrolysis

gases etc. were described by P. S. Kogan (Ref.11).

Card 1/3

SOV /65-58-12-5/16

The Effect of Water Vapour on the Pyrolysis of an Industrial Ethane Fraction When Preparing Ethylene

The effect of the amount of water vapour on the degree of conversion of ethane is shown in Table 1, and the effect of the water vapour on the yield of ethylene and the composition of the pyrolysis gases in Figs. 1 and 2. In these two figures it is also shown that when the ratio vapour-ethane fraction equals 0.05:0.1 the concentration of ethylene in gases does practically not change in comparison to the pyrolysis without water vapour and equals approximately 35% of the volume. On increasing this ratio the concentration of ethylene decreases to 29% of the volume, the content of carbon monoxide increases from 0.2 to 5.51% and of hydrogen from The acetylene content remains practically 40 to 45.9%. constant. Further experiments were carried out when the ratio of vapour ethane fraction equalled 0.25 & 0.5. These experiments were carried out to decrease the coke formation. Data on the effect of water vapour on coke formation is given in Table 2. The yield of coke is decreased from 0.99 to 0.09%. The dependence of these results on the length of the experiment was tested

Card 2/3

The Effect of Water Vapour on the Pyrolysis of an Industrial Ethane
Fraction When Preparing Ethylene

(Table 3) and it can be observed that the composition

(Table 3) and it can be observed that the composition

of the pyrolysis gases and the yield of ethylene are

of the pyrolysis gases and the yield of ethylene are

only slightly affected and remain practically constant.

There are 3 Tables, 2 Figures and 12 References: 1

There are 3 Tables, 3 German and 4 Soviet.

Card 3/3

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0013427

of electronic state of the state of the control of

POTOLOVSK / LA.

: 1.2,12

PHASE I BOOK EXPLOITATION

sov/4659

- Osnovy tekhnologii neftekhimicheskogo sinteza (Fundamentals of Synthesis Technology in Petroleum Chemistry) Moscow, Gostoptekhizdat, 1960. 852 p. 3,800 copies
- Eds.: Dintses, Arkadiy Illich, Professor, and Lev Aleksandrovich Potolovskiy, Professor; Executive Ed.: L.A. L'vova; Tech. Ed.: E.A. Mukhina.
- PURPOSE: This book is intended for engineers and chemists of petroleum refineries and chemical plants, for councils of the national economy, planning organizations and scientific research institutes engaged in chemical processing and largescale utilization of petroleum stock for the production of synthetic products.
- COVERAGE: The book describes important commercial methods of producing hydrocarbon petroleum and gas stock and coal stock for the manufacture of alcohols, aldehydes ketones, acids, detergents, synthetic fibers, and synthetic rubber. Flow sheets are included, and the basic equipment of the petrochemical industry is described. The physicochemical properties and use of intermediate and end synthetic products are also described. The state of the petrochemical industry outside the USSR and prospects for its development are covered. No personalities are mentioned. References follow each chapter.

# "APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001342

Fundamentals of Synthesis Technology (Cont.) SOV/4659	
Fundamentals of Synthesis Technology  5. Some special features of production technology for alkylbenzene  5. Some special features of production technology for alkylbenzene	sul-
a modulation technology to	421
5. Some special features of productions.  fonates in the United States of America  fonates in the United States and sulfonic acids	422
fonates in the United Bushes  II. Petroleum sulfonates and sulfonic acids	422
1. Properties and use 1. Properties and use	427
1. Properties and use 2. Production technology of petroleum sulfonates	430
TTT Albert Sillionates	430
1. Properties and use  1. Properties and use	431
o production technology of the	437
TI Secondary alkyl bulland	437 4 40
1. Properties and use	443
2 Production of secondary	443
v. Nonionic detergence	452
n-morties and we	
2. Production technology of the base of synthetic	454
TIT Production technology of A Potolovskiv	17.
detergents [A.I. Doladugin and L.A. Footstand of the paste of law and law a	454
1. Introduction of autitude	457
Bynthetic detergents	
2. Drying 2. Drying vII. Fatty acids and higher alcohols [K.A. Butkovskiy and vII. Fatty Academia	459
VII. Fatty acids and medical	
P.A. Moshkin]	
Card 12/21	

KHRULEV. M.V.; KOGAN, P.S.; POTOLOVE IY, L.A.

High temperature pyrolysis of theethane fraction in pipe furnaces.

Khim.i. tekh.topl. i masel 5 no.6:13-17 Je '60.

(MIRA 13:7)

(Petroleum—Refining) (Ethane)

MUCHIESKIY, David Yakovlevich; FOTOLOVSKIY, Lev Aleksandrovich;

EMISHERLOVA, G.M., ved. red.

[Polymerization of propylene; experience in the industrial proproduction of low-molecular olefins] Polimerizatiia propridena; onyt promyahlennogo proizvodstva nizkonolekuliar-rilena; onyt promyahlennogo proizvodstva nizkonolekuliar-rykh olefinov. Moskva, Khimdia, 1964. 90 p.

(Klika 17:12)

	The space of the s
= v. (p. 4. ASD(m) = 3/AFETR RM	
L 6870-65 EWT(m)/EPF(c)/EWP(j)/T Pc-4/Pr-4 ASD(m)-3/AFETR RM S/0081/64/000/007/P020/P021 59	
ACCESSION WAY.	
SOURCE: Ref. zh. Khimiya, Abs. 79143	
SOURCE: Ref. 2. Rorenanda, Potolovskiy, L. A.; Doladugin, A. I.; Korenanda, 2.	
SOURCE: Ref. zh. Khimiya, Abs. 79145  AUTHOR: Chkheidze, O. Ya., Potolovskiy, L. A.; Doladugin, A. I.; Korshunova, L. N.	
Zharov. G. A.	6
Zharov. G. A.  Zharov. G. A.  TITLE: Polysierization of propylene to obtain a trimeric fraction (nonylenes) as a	
basic product, was paresbotke nefti, wasp. 9, 1907, 220 to	
basic product  CITED SOURCE: Tr. Vses. ni. in-t po pereabotke nefti, vy*p. 9, 1963, 228-240  CITED SOURCE: Tr. Vses. ni. in-t po pereabotke nefti, vy*p. 9, 1963, 228-240  TOPIC TAGS: polymerization, propylene, trimerization, thermal cracking, oil	
amonization, propylene, trimor and	n
TOPIC TAGS: polymerization, propylene, translation of experimental installation of propylene was produced on experimental installation of ga TRANSLATION: Trimerization of propylene was produced on experimental installation of ga TRANSLATION: Trimerization of propylene was produced on experimental installation of ga TRANSLATION: Trimerization of propylene was produced on experimental installation of ga TRANSLATION:	565
TOPIC TAGS: polymerization of propylene was produced on experimental installation.  TRANSLATION: Trimerization of propylene was produced on experimental installation.  TRANSLATION: Trimerization of propylene was produced on experimental installation.  TRANSLATION: Trimerization of propylene was produced on experimental installation.  TRANSLATION: Trimerization of propylene was produced on experimental installation.  TRANSLATION: Trimerization of propylene was produced on experimental installation.  TRANSLATION: Trimerization of propylene was produced on experimental installation.  TRANSLATION: Trimerization of propylene was produced on experimental installation.  TRANSLATION: Trimerization of propylene was produced on experimental installation.  TRANSLATION: Trimerization of propylene was produced on experimental installation.	
TRANSLATION: 11704 on kieselguhr (TU 3) 22 - 26% propylene by weight with with catalyst H <sub>2</sub> PO <sub>4</sub> on kieselguhr (TU 3) 22 - 26% propylene by weight with of thermal cracking of black oil containing 22 - 26% propylene pyrolysis was the raw of thermal cracking of black oil containing 22 - 26% propylene pyrolysis was the raw of thermal cracking of propylene in trimers with recirculating propylene pyrolysis and propylene in trimers with recirculating pyrolysis.	
of thermal cracking of black oil containing 22 - 26% propylene by weight of thermal cracking of black oil containing 22 - 26% propylene by weight of thermal cracking of black oil containing 22 - 26% propylene by weight of the raw additional propane propylene fraction of gases of kerosene pyrolysis was the raw additional propane propylene in trimers with recirculate material. The results of polymerization of propylene in trimers with recirculate	LON
material. The results of podymen	
보았다. 12 : 10 : 10 : 10 : 10 : 10 : 10 : 10 :	
스로 발표하다 그 경우 이 전투 시간 경우 경우 경우 경우 경우 전 보이고 있는데 그 그 그 전 경우 보이고 있는데 그 그 그 그 그 그 그 그 그 그 그 그 그 그 그 그 그 그 그	
Card 1/3	

L 6870-65 ACCESSION NR: AR4041677 and without recirculation of dimers are given; the material balances of both processes are compared. Total transformation of propylene and yield of fractions of polymerizate depend comparatively little on propylene content in initial raw material. At 200° total transformation of propylene during change of volume speed from 1.0 to 2.5/hour changes within limits of 88 - 60%; at 220° -- within limits of 92 - 75%. Yield of trimeric fraction at 200° without recirculation of dimers is 30 - 35% (at volume velocity of 2.0 - 2.5/hour); at 220 degrees, other conditions being equal, it is 28 - 32%. Upon returning into the process ~50 - 60% dimers of propylene, transformation of propylene is practically constant (2 - 5% higher than during work without recirculation). During further increase of quantity of recirculate, transformation of propylene is lowered. Maximum quantity of dimer fraction which can be returned into the process for recirculation is 50% for propylene; in this the yield of trimeric fraction (125 - 150°) is ~50% for initial propylene and 60 - 70% for the reacting propylene; this confirms the expediency of carrying out the process at 200°. Yield of trimeric fraction for reacting propylene increases with increase of volume velocity of supply of raw material. During removal of all sulfurous compounds from the initial propanepropylene fraction, the trimeric fraction obtained in process of polymerization Card 2/3

# "APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001342

	: AR4041677  satisfies required as materials for trimerization,	insa present	ed to raw mat	erial for synthe	esis of um condition	S
of propylene	satisfies requi	or preparation	of plasticiae stra- and pent	amers of propyl	ene re	
of propylen	s satisfies required as materials for the trimerization, and of propylene	trimers.			·	
		encl:				
SUB CODE:	oc, ec				•	
				일하면 하다. 기본 (1915년 - 1915년 - 19	. •	
						1 ·

LAPIN, P.I.; KONDRATOVICH, N.Ye.; YUR'YEV, Yu.I.; ANTSIFEROVA, T.S.; GERNET, G.M.; POTOLOVSKIY, N.I., red.; MEL'NIKOVA, M.S., red. izd-va; PARA-KHINA, N.L., tekhn. red.

[Manual on the assembly, operation, maintenance and repair of the equipment of sawmills and woodworking enterprises] Spravochnik pomontazhu, ekspluatatsii i remontu oborudovaniia lesopil'nykh i demontazhu, ekspluatatsii i remontu oborudovaniia lesopil'nykh i demontevoobrabatyvaiushchikh predpriiatii. Moskva, Goslesbumizdat, 1961.

(MIRA 14:11)

(Woodworking machinery) (Sawmills—Equipment and supplies)

TARASOV, Vladimir Mikhaylovich; FOTOLOVSKIY, N.N., red.; NEL'NIKUVA, M.S., red. izd-va; VDOVINĀ, V.N., tekhn. red.

[Manual electric and pneumatic tools in the woodworking and associated industries] Ruchnoi elektrifitsiroyamnyi i pnevmaticheskii instrument v derevoobrabatyvaiushehem i soputmaticheskii instrument v derevoobrabatyvaiushehem i soputstvuiushehikh proizvodstvakh; apravochnoe rukovodstvo. Moskva, Goslesbumizdat, 1961. 95 p. (MIRA 15:3)

(Power tools)

H

POTOMSKY

CZECHOSLOVAKIA/Chemical Technology. Chemical Products and Their Application. Treatment of Solid Mineral

Fuels.

Abs Jour: Ref Zhur-Khin., No 13, 1958, 44514.

Author : Riedl R., Medricky Z., Potomsky V.

Inst

: Coking of Coal Tar Pitch. Title

Orig Pub: Paliva, 1957, 37, No 12, 406-411.

Abstract: Experiments on coking of coal tar pitch in cylindrical steel vessels placed in a coking oven in

which was conducted its industrial coking for the production of electrode coke; the vessel held 60 kg of pitch comminuted to a particle size of less than 40 mm; the experiments were conducted at a temperature of about 1080°. Determinations were

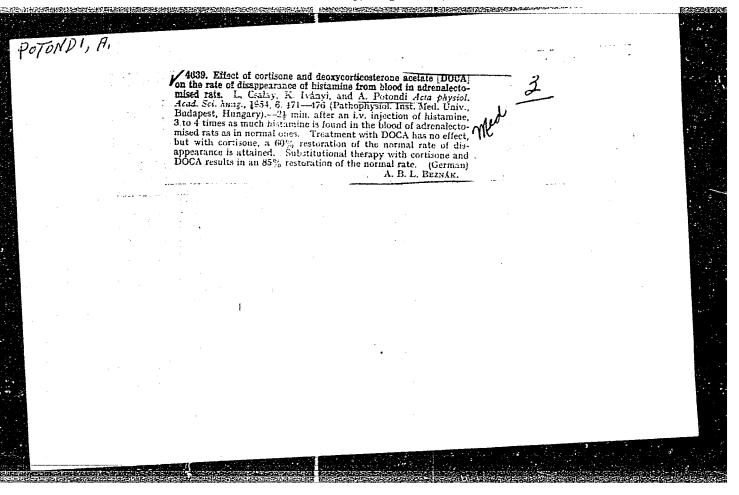
: 1/2 Card

3

MOHOS, J. Zoltan, dr.; POTONAY, Janos, dr.

Immune hemolysis following smallpox vaccination with lymphomonocytic reactions simulating infectious mononucleosis. Orv. hetil. 105 no.45:2141-2143 8 N 64.

1. Esztergomi Varosi Tanacs Korhaza, Verellato es Gyermekosztaly.



KENYERES, Imre, dr.; POTONDI, Andras, dr.; SOMOGYI, Endre, dr.

Fatal accidents in children in Budapest and Pest regions from 1957 to 1959. Orv. hetil. 102 no.40:1879-1882 1 0 '61.

1. Budapesti Orvostudomanyi Egyetem, Igazsagugyi Orvostani Intezet.

(ACCIDENTS in inf & child)

## "APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-F

CIA-RDP86-00513R001342

POTONDI, Andras; GABOR, Istvan

Twice-ruptured ansurysm of the base of the brain. Ideg.
szemle 13 no#:103-106 Ap '60.

1. Budapesti Orvostudomanyi Egyetem Igazsagugyi Orvostani Intezetenek
(Igazgato: Dr. Okros, Sandor egyetemi tanar ) kozlemenye.

(CEREBRAL ANEURYSM compl.)

# Malignant angioblastoma of the pia mater ("Lindau's disease"). Ideg. szemle 14 no.1:1-6 Ja '61. 1. A Budapesti Orvostudomanyi Egyetem Igazsagugyi Orvostani Intezetenek (Igazgato: dr. Okros Sandor egyetemi tanar) kozlemenye. (BRAIN MEDPLASMS case reports) (PIA MATER neopl) (ANGIOSARCOMA case reports)

## "APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001342

